

## Special Issue

# Fault Detection Based on Deep Learning

### Message from the Guest Editors

For this Special Issue, we seek contributions that cover a wide range of topics related to deep learning-based fault detection, including, but not limited to, the following: **(1) Novel deep learning architectures** for fault detection in specific domains (e.g., manufacturing, energy systems, automotive, aerospace, etc.); **(2) Hybrid models** that combine deep learning with traditional methods for enhanced performance and robustness; **(3) Transfer learning and data augmentation** techniques to improve model generalization with limited fault data; **(4) Explainability and interpretability** of deep learning models in fault detection, ensuring their integration into safety-critical applications.

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### Guest Editors

Prof. Dr. Maoyin Chen

Department of Automation, College of Information Science and Engineering, China University of Petroleum (Beijing), Beijing 102299, China

Dr. Zhu Wang

College of Artificial Intelligence, China University of Petroleum (Beijing), Beijing 102249, China

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### Deadline for manuscript submissions

closed (20 October 2025)



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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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